

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently amended) The combination of:

(a) ~~a an enteral~~ feeding tube, said ental feeding tube including a longitudinally-extending bore and an open proximal end, and

(b) a device for monitoring the administration of enteral nutritional fluids into the open proximal end of said ental feeding tube, said device comprising,

(i) a casing coupled to the open proximal end of said ental feeding tube, said casing being shaped to define a lumen in fluid communication with the longitudinally-extending bore of said ental feeding tube, said lumen including an inlet and an outlet, and

(ii) an electronic control circuit mounted within said casing.

2. (Original) The combination as claimed in claim 1 wherein said device for monitoring the administration of enteral nutritional fluids further comprises a metering device in electrical connection with said control circuit.

3. (Original) The combination as claimed in claim 2 wherein said metering device is coupled to said casing.

4. (Currently amended) The combination ~~as claimed in claim 3 of:~~

(a) ~~a feeding tube, said feeding tube including a longitudinally-extending bore and an open proximal end, and~~

(b) ~~a device for monitoring the administration of enteral nutritional fluids into the open proximal end of said feeding tube, said device comprising,~~

(i) a casing coupled to the open proximal end of said feeding tube, said casing being shaped to define a lumen in fluid communication with the longitudinally-extending bore of said feeding tube, said lumen including an inlet and an outlet,

(ii) an electronic control circuit mounted within said casing, and

(iii) a metering device in electrical connection with said control circuit,

wherein said metering device is positioned within the lumen and coupled to said casing.

5. (Original) The combination as claimed in claim 4 wherein said metering device includes a pressure-sensitive material which generates an electrical signal in response to fluid passing through the lumen.

6. (Original) The combination as claimed in claim 5 wherein said control circuit, in response to receiving an electrical signal from said metering device, calculates the amount of fluid which passes through the lumen.

7. (Original) The combination as claimed in claim 5 wherein said control circuit, in response to receiving an electrical signal from said metering device, calculates the rate in which fluid passes through the lumen.

8. (Original) The combination as claimed in claim 1 wherein said control circuit has time monitoring capabilities.

9. (Original) The combination as claimed in claim 8 wherein said control circuit comprises a microprocessor and a clock.

10. (Currently amended) The combination of:

(a) a an enteral feeding tube, said ental feeding tube including a longitudinally-extending bore and an open proximal end, and

(b) a device for monitoring the administration of enteral nutritional fluids into the open proximal end of said enteral feeding tube, said device comprising,

(i) a casing coupled to the open proximal end of said enteral feeding tube, said casing being shaped to define a lumen in fluid communication with the longitudinally-extending bore of said enteral feeding tube, said lumen including an inlet and an outlet, wherein said casing includes a lower housing and an upper housing which are pivotally connected together about a hinge, and

(ii) an electronic control circuit mounted within said casing.

11. (Original) The combination as claimed in claim 10 wherein said upper housing can be pivoted relative to said lower housing between an open position and a closed position.

12. (Currently amended) The combination as claimed in claim 11 wherein said casing includes a tube connector which is coupled to the open proximal end of said gastrostomy enteral feeding tube.

13. (Original) The combination as claimed in claim 12 wherein said tube connector is shaped to include at least one outwardly projecting barb.

14. (Previously presented) The combination of:

(a) a feeding tube, said feeding tube including a longitudinally-extending bore and an open proximal end, and

(b) a device for monitoring the administration of enteral nutritional fluids into the open proximal end of said feeding tube, said device comprising,

(i) a casing coupled to the open proximal end of said feeding tube, said casing being shaped to define a lumen in fluid communication with the longitudinally-extending bore of

said feeding tube, said lumen including an inlet and an outlet, wherein said casing includes a lower housing and an upper housing which are pivotally connected together about a hinge, wherein said upper housing can be pivoted relative to said lower housing between an open position and a closed position, wherein said casing comprises a protrusion which fittingly projects into the inlet of said lumen when said upper housing is disposed in its closed position, and

(ii) an electronic control circuit mounted within said casing.

15. (Original) The combination as claimed in claim 11 wherein said casing is provided with a locking member for releasably retaining the upper housing in its closed position.

16. (Original) The combination as claimed in claim 11 wherein said device for monitoring the administration of enteral nutritional fluids further comprises a pressure sensor in electrical connection with said control circuit.

17. (Original) The combination as claimed in claim 16 wherein said pressure sensor is fixedly mounted to said casing.

18. (Previously presented) The combination as claimed in claim 17 wherein said pressure sensor generates an electrical signal when said upper housing is disposed in its closed position.

19. (Original) The combination as claimed in claim 1 wherein said device for monitoring the administration of enteral nutritional fluids further comprises an externally-visible display in electrical connection with said control circuit.

20. (Original) The combination as claimed in claim 1 wherein said device for monitoring the administration of enteral nutritional fluids further comprises at least one externally accessible user input device in electrical connection with said control circuit.

21. (Original) The combination as claimed in claim 1 wherein said device for monitoring the administration of enteral nutritional fluids further comprises an alarm in electrical connection with said control circuit.

22. (Currently amended) The combination as claimed in claim 1 wherein said enteral feeding tube is a gastrostomy feeding tube.

23. (Currently amended) A device for monitoring the administration of enteral nutritional fluids into the open proximal end of a feeding tube, said feeding tube including a longitudinally-extending bore and an open proximal end, said device comprising:

(i) a casing shaped to comprise an upper housing and a lower housing, said lower housing being shaped to define comprise a top surface, a bottom surface and a lumen, said lumen extending transversely relative to said top and bottom surfaces and including an inlet and an outlet, said inlet being provided in said top surface, said casing being adapted to be coupled to the open proximal end of said feeding tube such that the lumen is in fluid communication with the longitudinally-extending bore, and

(ii) an electronic control circuit mounted within said casing.

24. (Original) The device for monitoring the administration of enteral nutritional fluids as claimed in claim 23 further comprising a metering device in electrical connection with said control circuit.

25. (Original) The device for monitoring the administration of enteral nutritional fluids as claimed in claim 24 wherein said metering device is coupled to said casing.

26. (Currently amended) ~~The A device for monitoring the administration of enteral nutritional fluids as claimed in claim 25 into the open proximal end of a feeding tube, said feeding tube including a longitudinally-extending bore and an open proximal end, said device comprising:~~

(i) a casing shaped to define a lumen, said lumen including an inlet and an outlet, said casing being adapted to be coupled to the open proximal end of said feeding tube such that the lumen is in fluid communication with the longitudinally-extending bore,

(ii) an electronic control circuit mounted within said casing,

(iii) a metering device in electrical connection with said control circuit, wherein said metering device is positioned within the lumen and coupled to said casing.

27. (Original) The device for monitoring the administration of enteral nutritional fluids as claimed in claim 26 wherein said metering device includes a pressure-sensitive material which generates an electrical signal in response to fluid passing through the lumen.

28. (Original) The device for monitoring the administration of enteral nutritional fluids as claimed in claim 27 wherein said control circuit, in response to receiving an electrical signal from said metering device, calculates the amount of fluid which passes through the lumen.

29. (Original) The device for monitoring the administration of enteral nutritional fluids as claimed in claim 27 wherein said control circuit, in response to receiving an electrical signal from said metering device, calculates the rate in which fluid passes through the lumen.

30. (Original) The device for monitoring the administration of enteral nutritional fluids as claimed in claim 23 wherein said control circuit has time monitoring capabilities.

31. (Original) The device for monitoring the administration of enteral nutritional fluids as claimed in claim 30 wherein said control circuit comprises a microprocessor and a clock.

32. (Currently amended) A device for monitoring the administration of enteral nutritional fluids into the open proximal end of a feeding tube, said feeding tube including a longitudinally-extending bore and an open proximal end, said device comprising:

(i) a casing ~~shaped to define a lumen, said lumen including an inlet and an outlet, said casing being adapted to be coupled to the open proximal end of said feeding tube such that the lumen is in fluid communication with the longitudinally-extending bore, wherein said casing includes~~ comprising a lower housing and an upper housing which are pivotally connected together about a hinge, said lower housing being shaped to include a top surface, a bottom surface, and a tube connector, said tube connector being adapted to be fluidly coupled to the open proximal end of said feeding tube, said tube connector extending transversely through said top surface and said bottom surface of said lower housing; and

(ii) an electronic control circuit mounted within said casing.

33. (Original) The device for monitoring the administration of enteral nutritional fluids as claimed in claim 32 wherein said upper housing can be pivoted relative to said lower housing between an open position and a closed position.

34. (Canceled)

35. (Currently amended) The device for monitoring the administration of enteral nutritional fluids as claimed in claim 34 ~~32~~ wherein said tube connector is shaped to include at least one outwardly projecting barb.

36. (Previously presented) A device for monitoring the administration of enteral nutritional fluids into the open proximal end of a feeding tube, said feeding tube including a longitudinally-extending bore and an open proximal end, said device comprising:

(i) a casing shaped to define a lumen, said lumen including an inlet and an outlet, said casing being adapted to be coupled to the open proximal end of said feeding tube such that the lumen is in fluid communication with the longitudinally-extending bore, wherein said casing includes a lower housing and an upper housing which are pivotally connected together about a hinge, wherein said upper housing can be pivoted relative to said lower housing between an open position and a closed position, and wherein said casing comprises a protrusion which fittingly projects into the inlet of said lumen when said upper housing is disposed in its closed position; and

 (ii) an electronic control circuit mounted within said casing.

37. (Original) The device for monitoring the administration of enteral nutritional fluids as claimed in claim 33 wherein said casing is provided with a locking member for releasably retaining the upper housing in its closed position.

38. (Original) The device for monitoring the administration of enteral nutritional fluids as claimed in claim 33 wherein said device for monitoring the administration of enteral nutritional fluids further comprises a pressure sensor in electrical connection with said control circuit.

39. (Original) The device for monitoring the administration of enteral nutritional fluids as claimed in claim 38 wherein said pressure sensor is fixedly mounted to said casing.

40. (Previously presented) The device for monitoring the administration of enteral nutritional fluids as claimed in claim 39 wherein said pressure sensor generates an electrical signal when said upper housing is disposed in its closed position.

41. (Currently amended) The combination of:

 (a) a an enteral feeding tube, the ental feeding tube including a longitudinally-extending bore and an open proximal end, and

(b) a device for monitoring the administration of enteral nutritional fluids into the open proximal end of the enteral feeding tube, the device comprising,

(i) a casing, the casing including a connector coupled to the open proximal end of the enteral feeding tube, the connector being shaped to define a lumen in fluid communication with the longitudinally-extending bore of the enteral feeding tube, the lumen including an inlet and an outlet, and

(ii) an electronic control circuit mounted within the casing.

42. (Previously presented) The combination as claimed in claim 41 wherein the connector of the casing is inserted into the feeding tube.

43. (Previously presented) The combination as claimed in claim 42 wherein the device for monitoring the administration of enteral nutritional fluids further comprises a metering device in electrical connection with the control circuit, wherein the metering device is positioned within the lumen of the connector.

44. (Previously presented) A device for monitoring the administration of enteral nutritional fluids into the open proximal end of a feeding tube, said feeding tube including a longitudinally-extending bore and an open proximal end, said device comprising:

(a) a casing, said casing comprising a first portion and a second portion, said first portion and said second portion being pivotally connected about a hinge so that the casing is alternately positionable in an open position and a closed position, said first portion of said casing being shaped to include a tubular connector, said tubular connector having an inlet and an outlet, said outlet being adapted to be coupled to the open proximal end of a feeding tube, said inlet being

open to the passage of fluid therethrough when the casing is in said open position and being closed to the passage of fluid therethrough when the casing is in said closed position;

(b) a metering device, said metering device being coupled to said tubular connector to measure fluid flow therethrough; and

(c) an electronic control circuit, said electronic control circuit being electrically coupled to said metering device.